



دانشگاه صنعتی امیرکبیر  
(پلی تکنیک تهران)

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بهروز بهنام

دانشیار

دانشکده مهندسی عمران و محیط زیست  
گروه آموزشی مهندسی و مدیریت ساخت

### رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	ارائه بستر محاسباتی ریسک لرزه ای لوله های مدفون فولادی	سعیده فراهانی و بهروز بهنام	اسفند 1399

### پایان‌نامه‌های کارشناسی ارشد

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	پیشنهاد چارچوبی برای ارزیابی کمی ریسک حریق در صنایع فرایندی با استفاده از روشهای احتمالاتی	محمدرضا کریمی دهکردی و بهروز بهنام	اردیبهشت 1401
2	ارزیابی ریسک آتش سوزی در تونل های شهری بر مبنای آنالیز احتمالاتی و استفاده از FDS	علی خسروی فر و بهروز بهنام	دی 1400
3	شناسایی عناصر بحرانی ایمنی در صنایع نفت و گاز با استفاده از روشهای تحلیل ریسک احتمالاتی	رضا قاسمی پیربلوطی و بهروز بهنام	شهریور 1400
4	طراحی سکوهای نفتی دریایی ثابت برای بارهای وارده براساس هزینه چرخه عمر	مهدی حاجی نژادیان و بهروز بهنام	آذر 1399
5	بررسی خرابی پیش رونده بعد از زلزله سازه های بلند مرتبه با قاب خمشی فولادی در سناریوهای مختلف حذف ستون	حسین سمسارها و بهروز بهنام	تیر 1399
6	ارزیابی آسیب پذیری لرزه ای شریان های حیاتی - مطالعه موردی : خط انتقال آب از سد ماملو به جنوب تهران	شهراد تورانی و بهروز بهنام	خرداد 1399

فروردین 1399	مهدی مظفری و بهروز بهنام	7 : ارائه مدلی مؤثر جهت استقرار سیستم مدیریت ایمنی فرآیند در نیروگاه های کشور به همراهمطالعه موردی
بهمن 1398	محمدصادق بهمنی و بهروز بهنام	8 ارائه مدل ایمنی فضاهای آموزشی بزرگ : مطالعه موردی دانشگاه صنعتی امیرکبیر ( پلی تکنیکتهران )
دی 1398	مجید رحیمی پردنجانی و بهروز بهنام	9 ارزیابی ریسک حذف آمونیاک از پساب پتروشیمی مطالعه موردی:پتروشیمی مبین
دی 1398	بهنام باصر و بهروز بهنام	10 مدیریت بحران آتشسوزی مخازن نفتی پس از زلزله
بهمن 1397	آتوسا عطار و بهروز بهنام	11 تحلیل و ارزیابی خرابی های ناشی از زلزله در شبکه های آب و مدیریت بحران در آنها
بهمن 1397	الهام عنایتی و بهروز بهنام	12 ارائه چارچوبی جهت سنجش آسیب پذیری کاربری های شهری در برابر سوانح از منظر مکانکاربری با رویکرد آینده پژوهی
تیر 1397	آزاد قادری و بهروز بهنام	13 ارزیابی رفتار سازه های فلزی بلند مرتبه با سیستم دوگانه (قاب خمشی +بادبند)تحت اثر خرابیپیشرونده در صورت حذف المان های باربر پس از رخداد زلزله
خرداد 1396	شاهید ابوالقاسمی و بهروز بهنام	14 بررسی قاب های خمشی از نظر مقاومت در برابر حریق پس از زلزله در سازه های فلزی میان مرتبه
اسفند 1395	سامان فرزانه پورکلی و بهروز بهنام	15 شناسایی خطرات و ارزیابی ریسک پروژه های ساختمانی
بهمن 1395	یاشار نصراللهی و بهروز بهنام	16 بررسی میزان آسیب پذیری ارتباط زمینی شهر تهران در برابر زلزله
مهر 1395	محمدحسن حسنی و بهروز بهنام	17 بررسی جامع اثر هزینه چرخه عمر بر عملکرد ساختمان های مسکونی
اسفند 1394	مزدک حاتمیان فر و بهروز بهنام	18 مطالعه موردی بررسی میزان آسیب پذیری ساختمان های مسکونی شهر تهران بر اثر آتش سوزی پس از زلزله

## کتاب

#	عنوان	نگارندگان/مترجمان	کشور ناشر	تاریخ انتشار	نسخه
داده های ثبت شده در پورتال					
1	Integrating Disaster Science and Management	بهروز بهنام	United States	1396	1
2	Methods of Improving Fire Resistance Rating of Damaged Reinforced Concrete Structures	بهروز بهنام	United States	1396	1
3	Post-Earthquake Fire Analysis in Urban Structures: Risk Management Strategies	بهروز بهنام	United States	1395	1
4	Modeling and Simulation Techniques in Structural Engineering	بهروز بهنام	United States	1395	1

## مقالات ژورنال

داده های ثبت شده در پورتال

- 1 Hossein Semsarha, Payam Tehrani, Behrouz Behnam, "Post-earthquake progressive failure resistance of steel frames under column-removal scenarios", *Structures*, Vol. 33, Num. 6, Page 1544-1560, May 2021,

- 2 Nafiseh Lotfi, Behrouz Behnam, Farzad Peyman, "A BIM-based framework for evacuation assessment of high-rise buildings under post-earthquake fires", *Journal of Building Engineering*, Vol. 43, Num. 1, Page 1-11, April 2021,
- 3 Behrouz Behnam, "Modifications to fire resistance ratings of steel frames based on structural configuration: A probabilistic-based approach", *STRUCTURAL ENGINEERING AND MECHANICS*, Vol. 77, Num. 5, Page 1-12, March 2021,
- 4 Saeideh Farahani, Behrouz Behnam, Ahmad Taher Shamsi, "Probabilistic seismic multi-hazard loss estimation of Iran gas trunklines", *JOURNAL OF LOSS PREVENTION IN THE PROCESS INDUSTRIES*, Vol. 66, Num. 7, Page 1-10, May 2020,
- 5 Behrouz Behnam, "Vulnerability assessment of irregular steel structures under traveling fires", *STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS*, Vol. 29, Num. 7, Page 1-13, April 2020,
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- 7 Behnam Baser, Behrouz Behnam, "An emergency response plan for cascading post-earthquake fires in fuel storage facilities", *JOURNAL OF LOSS PREVENTION IN THE PROCESS INDUSTRIES*, Vol. 65, Num. 5, Page 1-15, April 2020,
- 8 Saeideh Farahani, Ahmad Taher Shamsi, Behrouz Behnam, "Earthquake and post-earthquake vulnerability assessment of urban gas pipelines network", *NATURAL HAZARDS*, Vol. 100, Num. 301, Page 1-23, February 2020,
- 9 Mohammadhassan Hassani, Behrouz Behnam, Reza Maknoon, "A risk-based framework for design of concrete structures against earthquake", *COMPUTERS AND CONCRETE*, Vol. 25, Num. 2, Page 1-13, February 2020,
- 10 Behrouz Behnam, "Effects of thermal spalling on the fire resistance of earthquake-damaged reinforced concrete structures", *EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING*, Vol. -, Num. 0, Page 1-19, October 2019,
- 11 Behrouz Behnam, Shahid Abolghasemi, "Post-earthquake Fire Performance of a Generic Fireproofed Steel Moment Resisting Structure", *JOURNAL OF EARTHQUAKE ENGINEERING*, Vol. 24, Num. 7, Page 939-966, July 2019,
- 12 Behrouz Behnam, "A scenario-based methodology for determining fire resistance ratings of irregular steel structures", *ADVANCES IN STRUCTURAL ENGINEERING*, Vol. -, Num. 0, Page 1-15, July 2019,
- 13 Behrouz Behnam, "Performance of Steel Moment-resisting Beam-supporting Column Transfer Structures under Fire", *STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS*, Vol. 28, Num. 14, Page 1-18, July 2019,
- 14 Behrouz Behnam, "Seismic design of steel moment-resisting structures based on life-cycle cost", *PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS*, Vol. 172, Num. 9, Page 1-18, July 2019,
- 15 Behrouz Behnam, Fahimeh Shojaei, Hamid Reza Ronagh, "Seismic progressive-failure analysis of tall steel structures under beam-removal scenarios", *Frontiers of Structural and Civil Engineering*, Vol. 13, Num. 3, Page 1-14, April 2019,
- 16 Behrouz Behnam, "Fire Structural Response of the Plasco Building: A Preliminary Investigation Report", *INTERNATIONAL JOURNAL OF CIVIL ENGINEERING*, Vol. 3, Num. 22, Page 1-18, June 2018,
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- 18 Fahimeh Shojaei, Behrouz Behnam, "Seismic vulnerability assessment of low-rise irregular reinforced concrete structures using cumulative damage index", *Advances in Concrete Construction*, Vol. 5, Num. 4, Page 407-422, August 2017,
- 19 Behrouz Behnam, "Failure Sensitivity Analysis of Tall Moment-Resisting Structures Under Natural Fires", *INTERNATIONAL JOURNAL OF CIVIL ENGINEERING*, Vol. 2, Num. 12, Page 1-12, July 2017,
- 20 Farshad Hashemi Rezvani, Behrouz Behnam, Hamid Reza Ronagh, M. Shahria Alam, "Failure progression resistance of a generic steel moment-resisting frame under beam-removal scenarios", *international Journal of Structural Integrity*, Vol. 8, Num. 3, Page 1-20, May 2017,




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- 24 Behrouz Behnam, Hamid Reza Ronagh, "Firewalls and post-earthquake fire resistance of reinforced-concrete frames", *PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS*, Vol. 169, Num. 0, Page 20-33, January 2016,
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- 26 Behrouz Behnam, "Structural Response of Vertically Irregular Tall Moment-resisting Steel Frames under Pre- and Post-earthquake Fire", *STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS*, Vol. 0, Num. 0, Page 0-0, December 2015,
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## مقالات کنفرانس

### داده های ثبت شده در پورتال

- 1 Majid Rahimi Pordanjani, Sasan Zarei, Narges Fallah, Behrouz Behnam, "Ammonia Removal from Petrochemical Wastewater by Cost Effective and Highest Efficiency Adsorbents (Case Study: Asalouyeh, Iran)", 16th Iranian National Congress of Chemical Engineering, January 2019
- 2 Ali Kiaei, Ahmad Taher Shamsi, Behrouz Behnam, "Resilient and Sustainable Approach to Flood Management using a Multi-Criterion Decision Making Decision", 4th Comprehensive Conference on Disaster Management & HSE, July 2017

## دروس ارائه شده

#	عنوان درس	توصیف درس	دوره سرفصل درسی ها
1	Principles of Construction Management	This course is to familiarize BSc students with fundamentals of construction management and that at the end they will be able to handle a constructional based project, from planning to construction.	 Spring 2022
2	Integrated Safety Management	This course provides a systematic way to identify hazards and control risks while maintaining assurance that these risk controls are effective	 Spring 2022
3	Seminar	This course is to provide a basis for graduate students to be familiar with different methods of research and that how to prepare a work to present	 Spring 2022

4	Construction Methods	This course provides an introduction to advanced construction methods including new methods to excavation, concrete forming, welding, retrofitting , etc.		Spring 2022
5	Principles of Construction Management	This course is to familiarize BSc students with fundamentals of construction management and that at the end they will be able to handle a constructional based project, from planning to construction.		Fall 2021
6	Crisis Management	This course provides some fundamental explanation of the process of natural disaster management such as earthquake and flood.		Fall 2021
7	Construction Methods (I)	This course provides an introduction to advanced construction methods including new methods to excavation, concrete forming, welding, retrofitting , etc.		Fall 2021
8	Seminar	This course is to provide a basis for graduate students to be familiar with different methods of research and that how to prepare a work to present		Fall 2021
9	Safety, Health & Environmental Management	This course provides a systematic way to identify hazards and control risks while maintaining assurance that these risk controls are effective		Fall 2021
10	Crisis Management	This course provides some fundamental explanation of the process of natural disaster management such as earthquake and flood.		Fall 2021
11	Seminar	This course is to provide a basis for graduate students to be familiar with different methods of research and that how to prepare a work to present		Spring 2021
12	Principles of Construction Management	This course is to familiarize BSc students with fundamentals of construction management and that at the end they will be able to handle a constructional based project, from planning to construction.		Spring 2021
13	Integrated Safety Management	This course provides a systematic way to identify hazards and control risks while maintaining assurance that these risk controls are effective		Spring 2021
14	Construction Methods (I)	This course provides an introduction to advanced construction methods including new methods to excavation, concrete forming, welding, retrofitting , etc.		Spring 2021
15	Construction Methods	This course provides an introduction to advanced construction methods including new methods to excavation, concrete forming, welding, retrofitting , etc.		Spring 2021